

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Yoshihaya IMAMURA, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/JP03/12372 GAU:
FILED: Herewith EXAMINER:
FOR: PROCESS FOR PRODUCING TUBULAR RING WITH BEADS AND DIE FOR USE THEREIN

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 267546US3PCT		SERIAL NO. New U.S. PCT Application Based on PCT/JP03/12372	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Yoshihaya IMAMURA, et al.			
FILING DATE Herewith				GROUP			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AH	3215029	12/09/82	DE		NO
	AI	8-24969	01/30/96	JP		NO
	AJ	8-10864	01/16/96	JP		NO
	AK	2488163	02/12/82	FR(Equivalent to GB 2084806 & JP 57-56119)		NO
	AL	4-197524	07/17/92	JP		NO
	AM	59-64125	04/12/84	JP		NO
	AN	45-20599	08/18/70	JP		NO
	AO	97/45216	12/04/97	WO(Equivalent to EP 0028393, US 5,836,070 & JP 2000-511467)		NO
	AP	2001-310602	11/06/01	JP		NO
	AQ	6-312226	11/08/94	JP		NO
	AR	9-166111	06/24/97	JP		NO
	AS	58-4601	01/11/83	JP		NO
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)		
	AW	
	AX	
	AY	
	AZ	

☐ Additional References sheet(s) attached

Examiner	Date Considered
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*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

New U.S. PCT Application Based on PCT/JP03/12372
Docket No.: 267546US3PCT

STATEMENT OF RELEVANCY

1) References AH-AP have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.

2) References _____ have been cited in the corresponding _____ Search Report. A copy of these references is being submitted herewith.

3) References AQ-AS are discussed in the specification. A copy of these references is being submitted here with.

4) Reference _____ is additional prior art known to Applicant. A copy of these references is being submitted herewith.

1. JP 6-312226

PURPOSE: To easily produce a hollow material of three dimensional shape and various shapes so as to enlarge producible shape range.

CONSTITUTION: An electromagnetic forming coil 4 is inserted in the hollow stock of Al extruded material still at high temp. just after extrusion, and a die 2 for expanding is placed on the outer circumference of a hollow stock E corresponding to the presence range of the electromagnetic coil 4, at this state, by making instantaneous electric current flow to the electromagnetic forming coil 4, the outer circumference surface of hollow stock is pushed on the die 2 for expanding, forming the outer circumference surface of shape corresponding to the die. Thus, a hollow material H with varying a cross section in the longitudinal direction can produced.

2. JP 9-166111

PROBLEM TO BE SOLVED: To prevent strength from deteriorating due to thermal strain and thermal effect by providing inserting holes on opposed walls of one of metallic hollow member, inserting the other metallic hollow member

therethrough, and expanding pipe at the territory including inner and outer both side parts of the respective opposed walls so as to bite in the inserting holes.

SOLUTION: Inserting holes 3 of a little larger bore than the outer diameter of a hollow member 2 for cross member are respectively provided on prearranged joint positions of right and left opposed side walls 11, 12 of a hollow member 1 for side frame. Next the hollow member 2 is inserted through the inserting holes 3 until the extreme end part exceeds the hollow member 1 and projects from the member. In a territory of length L including the outside parts of the opposed walls 11, 12 and the inserted part to the hollow member 1, the hollow member 2 is expanded into larger diameter than that of the inserting holes 3 so that the hollow member 2 are bitten in and closely fitted in the circumferential edges of the inserting holes 3. Hereby, strength deterioration by thermal strain and thermal effect such as in the case of welding can be eliminated, and hence dimensional change is little and strength is excellent.